

AMENDED CLAIMS

Sub C1 7
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1. A long life gas engine oil comprising a major amount of an oil of lubricating viscosity and a minor amount of additives comprising phenolic anti oxidants, a low ash gas engine oil detergent system having a TBN of about 50 to about 300, and viscosity index improver, but which does not contain aminic anti oxidant, wherein the oil of lubricating viscosity has a viscosity of between about 9 to 13 cSt at 100°C, said oil of lubricating viscosity being a synthetic, hydrocracked or solvent refined oil or mixtures thereof, wherein the phenolic anti oxidant is present in an amount in the range of about 0.1 to 2 vol% and the viscosity index improver is present in an amount in the range of about 0.1 to 3 vol% and wherein the gas engine oil has a low ash content.

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4. The long life gas engine oil of claim 10 wherein the phenolic anti oxidant is present in an amount in the range of about 0.3 to 1.75 vol% and the viscosity index improver is present in an amount in the range of about 0.2 to 2 vol%.

Sub C2
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6. A method for enhancing the life of gas engine oils as evidenced by a reduction in viscosity increase, oxidation, nitration, TAN increase, and TBN depletion, comprising adding to a gas engine oil base stock having a viscosity at 100°C of from 9 to 13 cSt, the base stock being a synthetic, hydrocracked or solvent refined oil or mixture thereof, a minor amount of an anti oxidant in the range of about 0.1 to 2 vol% and a minor amount of a viscosity index improver in the range of about 0.1 to 3 vol%, wherein the anti oxidant is selected from the group consisting of phenolic anti oxidants and a minor amount of a low ash gas engine oil detergent system having a TBN of about 50 to about 300 wherein the gas engine oil has a low ash content.

AMENDED CLAIMS WITH ~~MARKINGS~~ (continued)

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9. The method of claim 12 wherein the phenol anti oxidant is added to the lubricating oil in an amount in the range of about 0.3 to 1.75 vol% and the viscosity index improver is added to the lubricating oil in an amount in the range of about 0.2 to 2 vol%.

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11 10. The oil of claim 1 wherein the oil of lubricating viscosity is a mixture of a hydrocracked oil and a solvent refined oil.

12 11. The oil of claim 4 wherein the detergent system is a mixture of detergent comprising at least one first alkali or alkaline earth metal salt having a TBN below about 250 and at least one second alkali or alkaline earth metal salt having a TBN of about one-half or less of the first salt.

13 12. The method of claim 6 wherein the basestock is a mixture of a hydrocracked oil and a solvent refined oil.

14 13. The method of claim 9 wherein the detergent system is a mixture of detergents comprising at least one first alkali or alkaline earth metal salt having a TBN below about 250 and at least one second alkali or alkaline earth metal salt having a TBN of about one-half or less of the first salt.